

FLOTATION SOLUTIONS

ArmaSport[®] MLC-2

Closed cell PVC/NBR foam in continuous rolls/sheets form

// ASTM D 1056 2A0/2A1 / 2C0/2C1

// Manufactured in continuous rolls/sheets

// Color natural/beige

// UL Listed: UL94 HBF, HF-1 & V-1

// UL Listed for flotation (Lifesaving Equipment – Marine)

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 **armacell**[®]
ArmaComp[™]

ARMASPORT MLC-2 | Closed cell PVC/NBR foam in continuous rolls/sheets form

ArmaSport MLC-2: Armacell (Conover, NC Plant) manufactures a natural/beige color, continuous (sheets/rolls), closed cell, 3.0 - 4.5 lb/ft³ (48 - 72 kg/m³) density, NBR/PVC rubber product MLC-2 (also called MLC-NAT), that meets the requirements of ASTM D 1056 2A0/2A1 / 2C0/2C1. MLC-2 (MLC-NAT) meets the burn rate requirements of FMVSS 302 at 0.250" (1/4") (6.35 mm) & higher. MLC-2 (MLC-NAT) is listed with UL (UL File # QMFZ2.E55798) and meets the flame resistance requirements of UL94 HF-1 between 3.9 - 4.2 mm, UL94 HBF at 4.2 mm (0.165") & higher and UL94 V-1 @ 12.6 mm (0.496") and higher. MLC-2 (MLC-NAT) is formally listed with UL for flotation use (UL File # OPET2.MQ1977 - Lifesaving Equipment - Marine).

TECHNICAL DATA SHEET | ROLLS/SHEETS (effective 29MAR21)

POLYMER: PVC/NBR

Physical Property	Test Method	Unit	Value	
ASTM D 1056 Designation	-	-	2A0/2A1 / 2C0/2C1	
Cell Structure	-	-	Closed	
Color	-	-	Natural/Beige	
Compression Deflection 25%	ASTM D 1056	psi kPa	1.5 - 3.5 10 - 24	
Compression Deflection 25%, after Heat Aging	ASTM D 1056	%	± 30	
Compression Set (Room temp)	ASTM D 1056	%	30 max	
Density	ASTM D 1056	lb/ft ³ kg/m ³	3 - 4.5 48 - 72	
Elongation	ASTM D 412 (Die A)	%	125 min	
Flammability	FMVSS 302	in mm	0.25 and higher 6.35 and higher	
Fluid Immersion	ASTM D 1056	%	250 max	
Hardness, Durometer Shore 00	ASTM D 2240	-	10 - 30	
Service Temperature	Low	ASTM D 1056	°F °C	0 -17.8
		High Intermittent	-	°F °C
Tear Strength	ASTM D 624 (Die C)	lb/in kN/m	8 min 1.4 min	
Tensile Strength	ASTM D 412 (Die A)	psi kPa	40 min 276 min	
		%	5 max	
Water Absorption	ASTM D 1056	%	5 max	

UL Listed to UL94 (Flame) HBF (UL file# QMFZ2.E55798) at 4.2 mm minimum thickness

UL Listed to UL94 (Flame) HF-1 (UL file# QMFZ2.E55798) at 3.9 - 4.2 mm only

UL Listed to UL94 (Flame) V-1 (UL file# QMFZ2.E55798) at 12.6 mm minimum thickness

UL Listed to UL 1191 for flotation use (UL File # OPET2.MQ1977 - Lifesaving Equipment - Marine). See Info Sheet for more information.

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ABOUT ARMACELL

As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With 3,200 employees and 24 production plants in 16 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for high-tech and lightweight applications and next generation aerogel blanket technology.

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